

# EUROPEAN PATENT OFFICE

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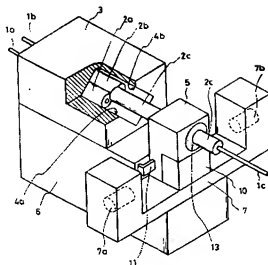
APPLICATION NUMBER : 62138803

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TITLE : MOVABLE FIBER TYPE OPTICAL  
SWITCH



**ABSTRACT :** **PURPOSE:** To eliminate the need of a delicate adjustment of the titled switch, and to stabilize it even if it is used without a maintenance for a long period of time, by covering each optical fiber end part with the same ferrule, respectively, and attaching a third end part which can be aligned with both of two mating faces, and its holding means through the ferrule.

**CONSTITUTION:** The end part of the first optical fiber 1a and the end part of a second optical fiber 1b are aligned with a V-groove 4a and 4b being two opposed mating faces formed in the inside of a guide 3, respectively. The end parts of each optical fiber 1a~1c are covered with ferrules 2a~2c of the same external form formed by a material whose flexural rigidity is comparatively large, respectively, and the end part of a third optical fiber 1c is attached by a soft structure 13 for allowing a small movement, to a moving piece 5 through a ferrule 2c. In such a way, an economical movable fiber type optical switch by which the optical axis can be aligned easily, and which is excellent in its stability for a long period of time can be obtained.

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